AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (withdrawn) A medical device for treating a wound, comprising:
 - (a) sealing means for preventing external substances from entering the wound by contacting the skin around the wound; and
 - (b) gap-filling means carried by the sealing means and adapted to contact the skin around about the wound and sealingly fill gaps between the skin around the wound and the sealing means in a substantially air-tight manner when the gapfilling means is placed between the sealing means and skin.
- 2. (withdrawn) The medical device of claim 1, wherein the gap-filling means is substantially free of memory, whereby, when it is changed from its original shape and molded into gaps between the sealing means and skin to have a new shape, it will retain the new shape and not return to its original shape.
- 3. (withdrawn) The medical device of claim 1, wherein a removable cover sheet is provided, carried by the sealing means and sandwiching the gap-filling means between the sealing means and the cover sheet.
- 4. (withdrawn) The medical device of claim 3, wherein the cover sheet comprises a release liner.

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5. (withdrawn) The medical device of claim 2, wherein an adhesive is provided, in

addition to said gap-filling means, for adhering the sealing means to the skin.

6. (withdrawn) The medical device of claim 5, wherein a removable cover sheet is

provided, carried by the sealing means and sandwiching the gap-filling means between the

sealing means and the cover sheet, wherein the cover sheet comprises a release liner, and

wherein the adhesive releasably secures the release liner to the sealing means.

7. (withdrawn) The medical device of any one of claims 1-2, including suction means in

communication with the sealing means, for providing a suction to the wound, to promote wound

drainage.

8. (withdrawn) A medical device for treating a wound by promoting wound drainage

comprising:

(a) an enclosure for placement over the wound and engaging the surface of skin

around the wound, the enclosure being substantially non-protruding away

from the skin surface around the wound;

(b) the enclosure including an openable and reclosable cover means for access to

the wound;

(c) with the cover means being substantially air-tight when closed; and

(d) suction means communicating with said enclosure, for applying suction to the

wound.

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9. (withdrawn) The medical device of claim 8, wherein the suction means comprises

means for applying continuous suction to the wound and means for varying the level of suction

applied to the wound.

10. (withdrawn) The medical device of claim 8, wherein the enclosure is substantially

flexibly comformable to the surface around the wound.

11. (withdrawn) The medical device of claim 8, wherein the enclosure includes an

opening that has a peripheral zone adapted to be applied to the skin surface around the wound,

leaving an enclosure area inside the peripheral zone of a predetermined size, greater than the area

of the wound to which the enclosure is to be applied.

12. (withdrawn) The medical device of claim 8, wherein the enclosure comprises a

flexible thermoplastic film.

13. (withdrawn) The medical device of claim 8, wherein the enclosure includes a flexible

extending means, wherein the volume beneath the enclosure can be reduced when suction is

applied by the suction means and the extending means collapses close to the skin in response to

suction applied by the suction means.

14. (withdrawn) The medical device of claim 13, wherein the extending means is

bellows-like.

15. (withdrawn) The medical device of claim 8, wherein the cover means includes at least

one connectable and disconnectable peripheral portion of said enclosure.

16. (withdrawn) The medical device of claim 15, wherein said cover means is adhesively

connectable and disconnectable from the rest of said enclosure.

17. (withdrawn) The medical device of claim 15, wherein said cover means is

connectable and disconnectable from the rest of said enclosure by means of a mechanical

interlock.

18. (withdrawn) The medical device of claim 8, wherein the cover means is both

adhesively disconnectible and mechanically disconnectible from the rest of said enclosure.

19. (withdrawn) The medical device of claim 8, including gap-filling means carried by

the enclosure for engaging the skin around the wound, for facilitating an airtight relationship

between the enclosure and skin disposed around the wound.

20. (withdrawn) The medical device of claim 8, including removable semi-rigid frame

means carried by said enclosure, for facilitating shape-retention of said enclosure until the

enclosure is applied to skin disposed about the wound.

21. (withdrawn) The medical device of claim 20, wherein said frame means is connected

to said enclosure by pre-formed perforation means in said enclosure.

22. (withdrawn) The medical device of claim 13, wherein the extending means connects

the cover means to the portion of the enclosure that engages the surface of the skin around a

wound, whereby the cover means can be opened and closed when the cover means is moved

away from the surface of the wound.

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23. (currently amended): A medical device for treating a wound of a patient, the wound

having at least one axis extending generally parallel to the skin of the patient contiguous with the

wound, said device being arranged for encouraging the contraction of the wound along said at

least one axis, comprising:

(a) a source of suction arranged for applying continuous suction to the wound;

(b) an enclosure coupled to said source of suction and arranged for maintaining

continuous suction on the wound by engaging the skin of the patient around the

wound; and

(c) an anisotropic wound packing formed of a spirally wound cylindrically configured

winding of gauze arranged to preferably collapse inward in radial directions having a

first direction of contraction and a second direction of contraction, said wound

packing being inherently more contractible in said first direction than said second

direction, said wound packing being arranged to be placed in the wound with said

first direction of contraction extending along said at least one axis to facilitate

continuous contraction of the wound to encourage preferential contraction of the

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wound when continuous suction is applied to the wound.

24. (canceled)

25. (canceled)

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26. (currently amended) The medical device of claim 23 25, wherein said wound packing comprises a plurality of said spirally wound cylindrically configured windings of gauze rolls, each of said plurality of spirally wound cylindrically configured windings of gauze having a respective longitudinal axis, and wherein said plurality of spirally wound cylindrically configured windings of gauze are to be disposed with their respective longitudinal axes generally parallel to each other in the wound.

27. (canceled)

28 (previously amended) The medical device of claim 23, wherein said enclosure is arranged to create a substantially air-tight seal with the skin of the patient.

29. (canceled)

30. (withdrawn) A medical device for treating a wound by promoting wound drainage, comprising:

- (a) suction means for applying continuous suction to the wound;
- (b) sealing means for maintaining suction on the wound by engaging the skin around the wound;
- (c) including leak detection means operationally disposed between the suction means and the sealing means.
- 31. (withdrawn) The medical device of claim 30, wherein the leak detection means is of the bubble detector type, having a liquid in a closed container, with the suction means connected 358442_1

to the container above a liquid level in the container and a connection from below the liquid level

in the container to the sealing means, whereby a leak in the system will allow visible bubbles of

airflow through the liquid in the container.

32. (withdrawn) The medical device of claim 30, wherein a discharge container for liquid

suctioned from the sealing means is operationally disposed between the sealing means and leak

detection means.

33. (withdrawn) The medical device of claim 7, wherein said suction means is a manual

suction means.

34. (canceled)

35. (withdrawn) The medical device of claim 8, wherein said suction means comprises

first regulator means for applying a constant first level of suction or pressure and at least an

additional second regulator means for periodically applying a second level of suction or pressure,

to said enclosure.

36. (withdrawn) The medical device of claim 35, including check valve means between

said first regulator means and said enclosure and between said second regulator means and said

enclosure.

37. (withdrawn) The medical device of claim 9, wherein the enclosure is substantially

flexibly conformable to the surface around the wound and is substantially non-protruding away

from the skin surface around the wound when applied to the surface around the wound, wherein

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the enclosure includes an opening that has a peripheral zone adapted to applied to the skin surface around the wound, leaving an enclosure area inside the peripheral zone of a predetermined size, greater than the area of the wound to which the enclosure is to be applied, wherein the enclosure comprises a flexible thermoplastic film, wherein the enclosure includes a flexible bellows-like means, wherein the volume beneath the enclosure can be reduced when suction is applied by the suction means and the bellows-like means folds close to the skin in response to suction applied by the suction means, wherein the cover means includes at least one connectable and disconnectable peripheral portion of said enclosure, including gap-filling means carried by the enclosure for engaging the skin around the wound, for facilitating an air-tight relationship between the enclosure and skin disposed around the wound, wherein the enclosure comprises a sealing means, wherein the gap-filling means is substantially free of memory, whereby, when it is changed from its original shape and molded into gaps between the sealing means and skin to have a new shape, it will retain the new shape and not return to its original shape, wherein a removable cover sheet is provided, carried by the sealing means and sandwiching the gap-filling means between the sealing means and the cover sheet, wherein the cover sheet comprises a release liner, wherein an adhesive is provided, in addition to said gapfilling means, for sealing the sealing means to the skin, including removable semi-rigid frame means carried by said enclosure, for facilitating shape-retention of said enclosure until the enclosure is applied to skin disposed about the wound, wherein said frame means is connected to said enclosure by pre-formed perforation means in said enclosure, including wound packing means, for placement into the wound, for absorbing liquids from the wound to prevent substantial pooling of liquids in the wound, said wound packing means being of the anisotropic 358442_1

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type and having at least one predetermined direction of contraction in response to said suction,

wherein the packing means comprises gauze, wherein the packing means comprises at least one

generally cylindrical gauze roll configuration having a generally longitudinal axis and radial

axes, to be disposed in the wound with it's longitudinal axis facing outside the wound and it's

radial axes facing sides of the wound, including leak detection means operationally disposed

between the suction means and the sealing means, and wherein the leak detection means is of the

bubble detector type, having a liquid in a closed container, with the suction means connected to

the container above a liquid level in the container and a connection from below the liquid level in

the container to the sealing means, whereby a leak in the system will allow visible bubbles of

airflow through the liquid in the container.

38. (withdrawn) The method of detecting a leak in a wound enclosure apparatus

comprising the steps of:

(a) connecting a suction means to the wound enclosure apparatus; and

(b) connecting a flow indicating means in communication with the suction means,

to determine by the flow indicated if a leak is present.

39. (currently amended): A method of controlling the direction of contraction of a wound

of a patient, said wound having at least one axis extending generally parallel to the skin of the

patient contiguous with said wound, said method comprising the steps of:

(a) providing an anisotropic wound packing formed of a spirally wound cylindrically

configured winding of gauze arranged to preferably collapse inward in radial

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directions having a first direction of contraction and a second direction of contraction,

said wound packing being inherently more contractible in said first direction than said

second direction;

(b) placing said anisotropic wound packing in said wound in a predetermined orientation

wherein said first direction of said anisotropic wound packing extends parallel to said

at least one axis to allow a controlled strain to be imposed on the wound tissue along

said at least one axis:

(c) sealing said wound with said anisotropic wound packing therein to produce an

enclosed space contiguous with said wound; and

(d) applying suction to said enclosed space and said wound and maintaining suction

therein, whereupon contraction of said wound in a preferential direction along said at

least one axis is encouraged.

40. (withdrawn) The medical device of claim 1, wherein the enclosure includes an

openable and reclosable cover means for access to the wound.

41. (withdrawn) A method for treating a wound comprising: (a) applying a sealing means

to the wound to prevent external substances from entering the wound by contacting the skin

around the wound; and (b) providing a gap-filling means carried by the sealing means and

contacting the skin about the wound with the gap-filling means and sealingly filling gaps

between the skin around the wound and the sealing means in a substantially air-tight manner

with the gap-filling means placed between the sealing means and the skin.

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42. (withdrawn) The medical device of claim 8, wherein said suction means comprises a computer controlled device capable of providing alternating and variable pressures and suction based upon an algorithm.